In the Claims

1. (Currently Amended) A method for designing filters that approximates the circularly symmetric frequency response achievable using a non-separable filter comprising:

(a) selecting a cut-off frequency and designing therefrom a ~~1-D~~ one-dimensional separable low pass filter (LP), LP being a row vector having entries ~~LP such that: LP =~~ [X_{-n}, $X_{-(n-1)}$, ... X_0, ... X_{n-1}, X_n];

(b) obtaining a ~~2-D~~ two-dimensional filter LPP by performing the operation: LP* X LP, wherein LP* ~~is~~ being a column vector having the same entries as LP, ~~and~~ LPP having dimensions given by: {2n+1, 2n+1};

(c) ~~and~~ generating a ~~2-D~~ two-dimensional ~~countour~~ contour plot for the two-dimensional filter LPP ~~therefor~~;

(d)~~(c)~~ designing a ~~1-D~~ one-dimensional separable high pass filter (HP), HP being a row vector having entries ~~such that: HP =~~ [Y_{-m}, $Y_{-(m-1)}$, ... Y_0, ... Y_{m-1}, Y_m];

(e)~~(d)~~ obtaining a ~~2-D~~ two-dimensional filter HPP by performing the operation: HP* X HP, wherein HP* ~~is~~ being a column vector having the same entries as HP, ~~and~~ HPP having dimensions: {2m+1, 2m+1};

(f) ~~and obtaining~~ generating a ~~2-D~~ two-dimensional contour plot for the two-dimensional filter HPP ~~therefor; (e) repeating (c) through (d) until the 2-D contour plot of HPP overlaps the 2-D countour plot of LPP~~;

(g)~~(f)~~ generating a ~~2-D~~ two-dimensional filter (ONE) when the two-dimensional contour plot for the two-dimensional separable filter LPP overlaps the two-dimensional contour plot for the two-dimensional separable filter HPP, ONE having the same dimensions of ~~that of~~ HPP with the only non-zero entry of value 1 being located at the center of ONE;

(h)~~(g)~~ ~~creating matrix HPPinv by~~ subtracting HPP from ONE to create matrix HPPinv;

(h)~~(g)~~ convolving LPP with HPPinv to obtain DSCRN having dimensions: {2m+2n+1, 2m+2n+1};

(i) ~~and obtaining~~ generating a ~~2-D~~ two-dimensional contour plot for DSCRN ~~therefor~~; and

~~(j)~~(i) constructing a filter to eliminate moiré in a rendered image when ~~repeating (a) through (h) until, by an examination of~~ the ~~2-D~~ two-dimensional contour plot ~~of~~ for DSCRN~~,~~ is an approximation to a desired circular symmetry ~~is achieved~~, the filter being constructed of LLP and HHP.

Claims 2-6 (Cancelled)